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Enzyme Finder By Sequence

Use this tool to select restriction enzymes by name, sequence, overhang, or type. Sequences should be entered using single letter code nomenclature. In search results, enzymes supplied by NEB are listed first and displayed as links.

Search by Sequence	ाच
Enter a recognition site:	
CCATC	
Exact matches only	
$\overset{\cdot}{C}$ All possible matches (including ambiguities	s)

Enzyme	Sequence	Cut Site	Overhang	Properties (NEB Enzymes Only)
BccI	CCATC .	C C A T C N N N N/N G G T A G N N N N N/	5'-N	RII NEB 1 BSA 37° Yes

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RELATED INFORMATION

- FAQs for Restriction Endonucleases
- ▶ Technical Reference for Restriction Endonucleases

FAVORITE TOOLS

- ▶ Enzyme Finder
- ▶ NEBcutter
- ▶ NEBuffer Chart
- ▶ Double Digest Finder
- ▶ Isoschizomers
- DNA Sequences and Maps
- ▶ REBASE

RELATED PRODUCTS Reagents Sold Separately

- NEBuffer 1
- BSA

SPECIAL OFFERS

BccI

RH NEB1 BSA 37° VAL

Nomenclature Update

Catalog # Size Concentration Price Qty ADD TO CART R0704S 1,000 units 10,000 units/ml \$61.00 ADD TO CART R0704L 5,000 units 10,000 units/ml \$244.00

Prices are in US dollars and valid only for US orders.

Download: MSDS PDF

Recognition Site:

5'... C CATC(N), ... 3' 3'...GGTAG (N)₅...5'

isoschizomers | compatible ends | single letter code

Source:

A E. coli strain that carries the BccI gene from Bacteroides caccae (ATCC 43185).

Reagents Supplied:

NEBuffer 1

BSA

Enzyme Properties

Activity in NEBuffers:

NEBuffer 1: 100% NEBuffer 2: 50% NEBuffer 3: 10% NEBuffer 4: 50%

When using a buffer other than the optimal (supplied) NEBuffer, it may be necessary to add more enzyme to achieve complete

Methylation Sensitivity:

dam methylation: Not sensitive dcm methylation: Not sensitive CpG methylation: Not sensitive

Heat Inactivation:

65°C for 20 minutes

Survival in a Reaction:

Minimum units to digest 1 µg of substrate DNA in 16 hours: 0.50 unit(s)

Reaction & Storage Conditions

Reaction Conditions:

1X NEBuffer 1

Supplemented with 100 µg/ml Bovine Serum Albumin

Incubate at 37°C.

1X NEBuffer 1:

10 mM Bis-Tris-Propane-HCl 10 mM MgCl₂ 1 mM Dithiothreitol pH 7.0 @ 25°C

Unit Definition:

One unit is defined as the amount of enzyme required to digest 1 μg of Adenovirus-2 DNA in 1 hour at 37°C in a total reaction volume of 50 μl .

Concentration:

10,000 units/ml

Unit Assay Substrate:

Adenovirus-2 DNA

Storage Conditions:

10 mM Tris-HCl 50 mM KCl 1 mM Dithiothreitol 0.1 mM EDTA 200 µg/ml BSA 50% Glycerol

pH 7.4 @ 25°C

Storage Temperature:

-20°C

Diluent Compatibility:

Diluent A

Quality Control for Current Lot

Quality control values for a specific lot can be found on the datacard which accompanies each product.

Ligation and Re-cutting:

After a 20-fold overdigestion with BccI, approximately 50% of the DNA fragments can be ligated with T4 DNA Ligase (at a 5' termini concentration of 1-2 µM) at 16°C. Of these ligated fragments, > 95% can be recut with BccI.

16-Hour Incubation:

A 50 µl reaction containing 1 µg of pBR322 DNA and 5 units of Bccl'incubated for 16 hours at 37°C resulted in a DNA pattern free of detectable nuclease degradation as determined by agarose gel electrophoresis.

Exonuclease Activity:

Iricubation of a 50 μ I reaction containing 60 units of BccI with 1 μ g of a mixture of single and double-stranded [3 H] E, coll DNA ($^{10^5}$ cpm/ μ g) for 4 hours at 37°C released < 0.1% of the total radioactivity.

Reagents Sold Separately

NEBuffer 1 BSA

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